

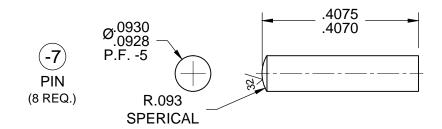
	OTHER WISE SPECIFIED.

PILOT No.	ØD ₁₀ 003 001	ØD ₁₁ 004 002	MATERIAL
-5001	.1635	.1635	4140 Q&T Ø1/4 x 3-1/2
-5002	.1885	.1885	4140 Q&T Ø1/4 x 3-1/2
-5003	.1885	.2490	4140 Q&T Ø1/4 x 3-1/2
-5004	.1885	.3110	4140 Q&T Ø3/8 x 3-1/2
-5005	.2490	.2490	4140 Q&T Ø1/4 x 3-1/2
-5006	.2490	.3110	4140 Q&T Ø3/8 x 3-1/2
-5007	.2490	.3740	4140 Q&T Ø3/8 x 3-1/2
-5008	.2490	.4365	4140 Q&T Ø1/2 x 3-1/2
-5009	.2490	.4990	4140 Q&T Ø1/2 x 3-1/2
-5010	.3740	.3740	4140 Q&T Ø3/8 x 3-1/2
-5011	.3740	.4365	4140 Q&T Ø1/2 x 3-1/2
-5012	.3740	.4990	4140 Q&T Ø1/2 x 3-1/2
-5013	.3740	.5615	4140 Q&T Ø5/8 x 3-1/2
-5014	.3740	.6240	4140 Q&T Ø5/8 x 3-1/2
-5015	.3740	.8740	4140 Q&T Ø7/8 x 3-1/2
-5016	.2490	.6240	4140 Q&T Ø5/8 x 3-1/2
-5017	.3740	.7490	4140 Q&T Ø3/4 x 3-1/2
-5018	.4990	.4990	4140 Q&T Ø1/2 x 3-1/2
-5019	.4990	.5615	4140 Q&T Ø5/8 x 3-1/2
-5020	.4990	.6240	4140 Q&T Ø5/8 x 3-1/2
-5021	.4990	.7490	4140 Q&T Ø3/4 x 3-1/2

PILOT No.	ØD ₁₀ 003 001	ØD ₁₁ 004 002	MATERIAL
-5022	.4990	.7864	4140 Q&T Ø7/8 x 3-1/2
-5023	.4990	.8740	4140 Q&T Ø7/8 x 3-1/2
-5024	.4990	.9990	4140 Q&T Ø1 x 3-1/2
-5025	.4990	1.1801	4140 Q&T Ø1-1/4 x 3-1/2
-5026	.4990	1.0615	4140 Q&T Ø1-1/8 x 3-1/2
-5027	.2490	.8740	4140 Q&T Ø7/8 x 3-1/2
-5028	.4990	1.2490	4140 Q&T Ø1-1/4 x 3-1/2
-5029	.4990	1.3120	4140 Q&T Ø1-3/8 x 3-1/2
-5030	.4990	1.4370	4140 Q&T Ø1-1/2 x 3-1/2
-5031	.4990	1.4990	4140 Q&T Ø1-1/2 x 3-1/2
-5032	.4990	2.0615	4140 Q&T Ø2-1/8 x 3-1/2
-5033	.4990	2.3115	4140 Q&T Ø2-3/8 x 3-1/2
-5034	.4990	2.4990	4140 Q&T Ø2-1/2 x 3-1/2
-5035	.4990	2.7490	4140 Q&T Ø2-3/4 x 3-1/2
-5036	.4990	1.5615	4140 Q&T Ø1-5/8 x 3-1/2
-5037	.4990	1.8120	4140 Q&T Ø1-7/8 x 3-1/2
-5038	.2490	.7490	4140 Q&T Ø3/4 x 3-1/2
-5039	.4990	1.7490	4140 Q&T Ø1-3/4 x 3-1/2
-5040	.4990	1.8740	4140 Q&T Ø1-7/8 x 3-1/2
-5041	.1240	.1240	4140 Q&T Ø1/4 x 3-1/2
-5042	.2490	.4990	4140 Q&T Ø1/2 x 3-1/2

PILOT No.	ØD ₁₀ 003 001	ØD ₁₁ 004 002	MATERIAL	
-5043	.2490	.4830	4140 Q&T Ø1/2 x 3-1/2	
-5044	.3740	.8740	4140 Q&T Ø7/8 x 3-1/2	
-5045	.4990	1.4240	4140 Q&T Ø1-1/2 x 3-1	/2
-5046	.4990	1.5940	4140 Q&T Ø1-5/8 x 3-1/	/2
-5047	.4990	2.0990	4140 Q&T Ø2-1/8 x 3-1/	/2
-5048	.1240	.2490	4140 Q&T Ø1/4 x 3-1/2	
-5049	.1885	.3115	4140 Q&T Ø3/8 x 3-1/2	
-5050	.1885	.3740	4140 Q&T Ø3/8 x 3-1/2	
-5051	.1885	.4210	4140 Q&T Ø1/2 x 3-1/2	
-5052	.1885	.4310	4140 Q&T Ø1/2 x 3-1/2	
-5053	.1885	.4365	4140 Q&T Ø1/2 x 3-1/2	
-5054	.1885	.4990	4140 Q&T Ø1/2 x 3-1/2	
-5055	.2490	.6840	4140 Q&T Ø3/4 x 3-1/2	
-5056	.2490	.8040	4140 Q&T Ø7/8 x 3-1/2	
-5057	.4990	1.3730	4140 Q&T Ø1-3/8 x 3-1/	/2
-5058	.8740	.8740	4140 Q&T Ø7/8 x 3-1/2	
-5059	.2490	.3140	4140 Q&T Ø3/8 x 3-1/2	
-5060	.1885	.2352	4140 Q&T Ø1/4 x 3-1/2	
-5061	.1885	.1958	4140 Q&T Ø1/4 x 3-1/2	
-5062	.4990	1.4365	4140 Q&T Ø1-1/2 x 3-1/	/2
-5063	.6240	1.0628	4140 Q&T Ø1-1/8 x 3-1/	/2

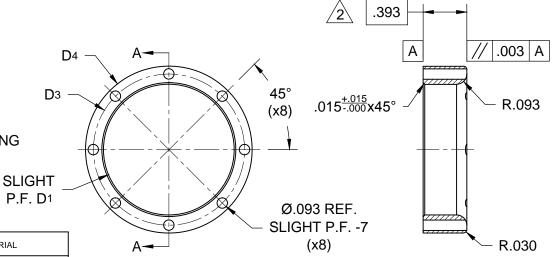
® RED BARN MACHINE POINT STAKING TOOL; TITLE RETAINING RING DWG NO. REV RBST(TOOL# SEE Pg.1 CHART)-(PILOT# SEE CHART)-9 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 BLACK DXIDE ANGLES ±.5° UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON BEARING SEE CHART Pg. 1 SCALE DATE SHEET 2-6-08 6 of 6 NTS



<u>NOTES</u>

- 1. SAME PINS FOR ALL TOOL NUMBERS.
- 2. BREAK ALL SHARP EDGES.

								® RED BARN MACHINE
ASS' QT'	ASSY QTY	B/O	PART#	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	TIME 8 POINT STAKING TOOL; PIN
		W/O	-7	8	PINS	STEEL	Ø.093 MINUS GAUGE PIN MSC #89009302	DWG NO.
								RBST(TOOL# 'SEE Pg.1 CHART)-(PILOT# SEE Pg.1 CHART)-7 1A
								UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT DIMENSIONS ARE IN INCHES
								TOLERANCES ON:
								.XXX ± .005 FRACTIONS + 1/32 TREAT
								XX ± .01 ANGLES ±.5° FINISH X ± .1 ANGLES ±.5° SPEC USED ON BEARING
								1. BREAK ALL SHARP EDGES SFF CHART Pg. 1
								.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
	ASSY #							scale NTS pate 2-6-08 sheet 5 of 6



BEARING PILOT ØD₁ +.0003 -.0008 ØD₃ +.005 -.005 TOOL# MATERIAL No. OD. 1.0937 1.0170 1.203 1.344 4140 Q&T Ø1-3/8 x 1/2 1093-8-GT -5013 .5625 1.0490 1.235 4140 Q&T Ø1-3/8 x 1/2 -5012 1.1250 .5000 1.375 1125-8-GT 4140 Q&T Ø1-1/2 x 1/2 1.437 -5012 1.1875 .5000 | 1.1115 | 1.297 1.1115 1.297 4140 Q&T Ø1-1/2 x 1/2 1.1875 .5625 1.437 -5013 1187-8-GT 1.1875 .6250 1.1115 1.437 4140 Q&T Ø1-1/2 x 1/2 -5017 1.1875 1.297 1.437 4140 Q&T Ø1-1/2 x 1/2 .7500 1.1115 4140 Q&T Ø1-1/2 x 1/2 -5005 1.2500 .2500 1.1740 1.360 1.500 Ø1-1/2 x 1/2 1250-8-GT -5006 1.2500 .3125 .1740 1.360 1.500 4140 Q&T -5016 1.2500 .6250 1.1740 1.360 1.500 4140 Q&T Ø1-1/2 x 1/2 1.3125 1.562 4140 Q&T Ø1-5/8 x 1/2 .4375 1.2360 1.423 -5011 1312-8-GT -5014 1.3125 .6250 1.2360 1.423 1.562 4140 Q&T Ø1-5/8 x 1/2 -5015 1.3125 .8750 1.2360 1.423 1.562 4140 Q&T Ø1-5/8 x 1/2 Ø1-5/8 x 1/2 1.2990 1.485 1.625 4140 Q&T -5014 1.3750 .6250 1375-8-GT 4140 Q&T Ø1-5/8 x 1/2 -5017 1.3750 .7500 1.2990 1.485 1.625

(-5)

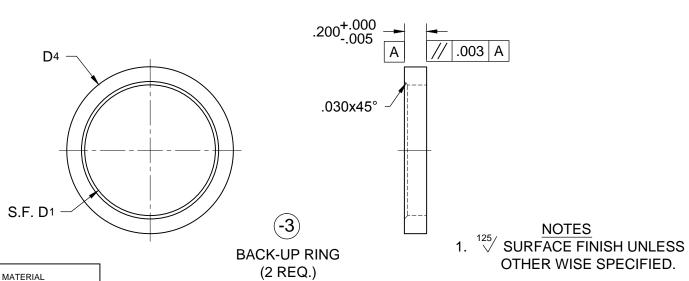
RETAINING RING (2 REQ.)

NOTES

SECTION A-A

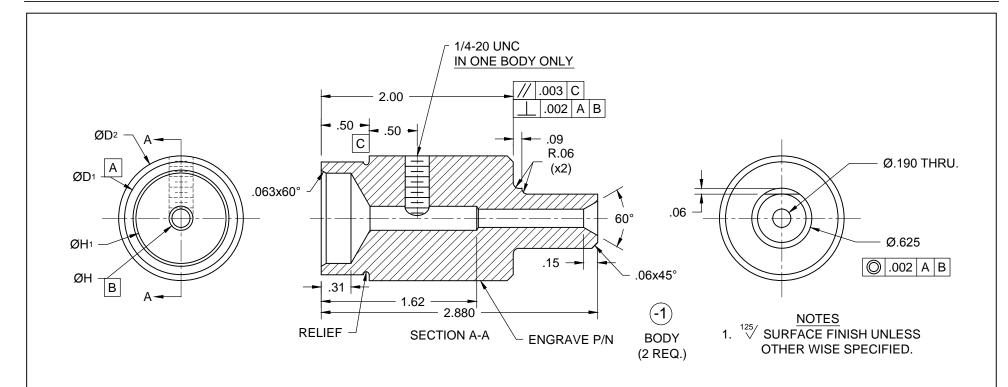
1. SURFACE FINISH UNLESS
OTHER WISE SPECIFIED.
2. -5 HEIGHT IS .013 TO .014 LESS
THAN -7 LENGTH.

RED BARN MACHINE TITLE POINT STAKING TOOL; RETAINING RING DWG NO. REV RBST(TOOL# SEE CHART)-(PILOT# SEE CHART)-5 UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT DIMENSIONS ARE IN INCHES APPROVED TOLERANCES ON: DECIMALS HEAT .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 BLACK DXIDE ANGLES ±.5° USED ON BEARING UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES SEE CHART Pg. 1 .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING SCALE SHEET 4 of 6 DATE 2-6-08 NTS



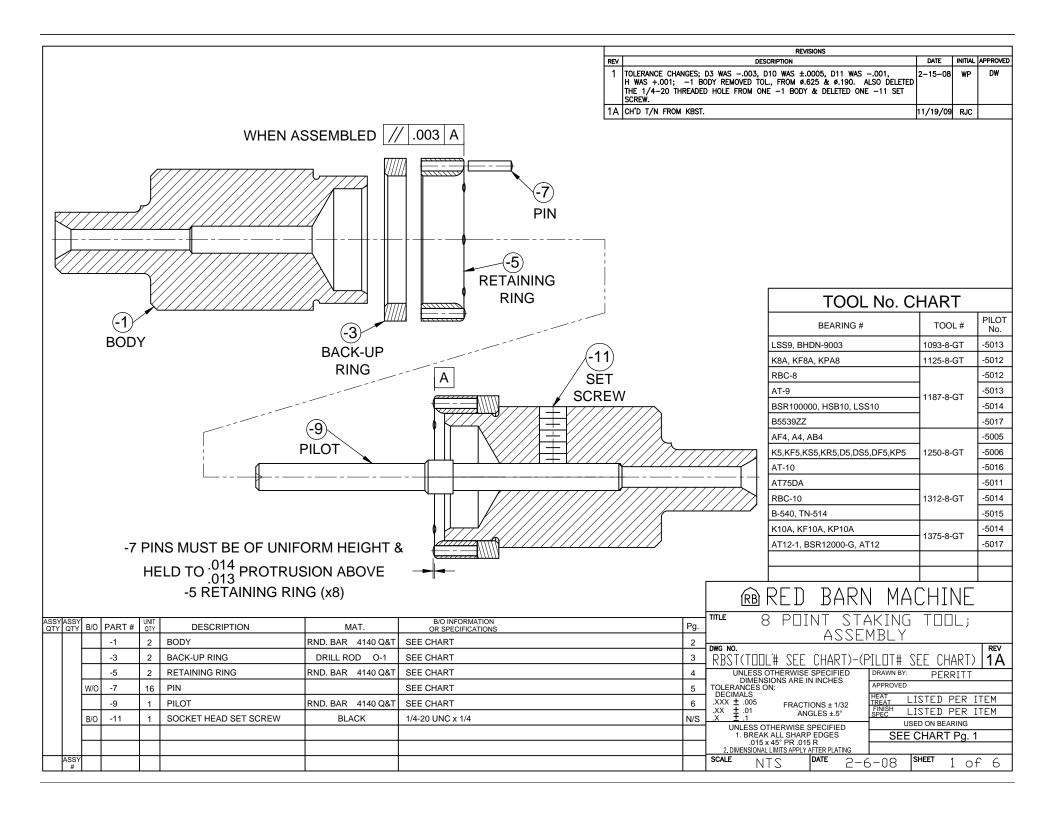
TOOL#	PILOT No.	BEA OD.	RING ID.	ØD ₁ +.0003 0008	ØD ₄ +.015 000		MATER	IAL
1093-8-GT	-5013	1.0937	.5625	1.0170	1.344	0-1	DRILL ROD	Ø1-3/8 x 3/8
1125-8-GT	-5012	1.1250	.5000	1.0490	1.375	0-1	DRILL ROD	Ø1-3/8 x 3/8
	-5012	1.1875	.5000	1.1115	1.437	0-1	DRILL ROD	Ø1-1/2 x 3/8
1187-8-GT	-5013	1.1875	.5625	1.1115	1.437	0-1	DRILL ROD	Ø1-1/2 x 3/8
1107-0-01	-5014	1.1875	.6250	1.1115	1.437	0-1	DRILL ROD	Ø1-1/2 x 3/8
	-5017	1.1875	.7500	1.1115	1.437	0-1	DRILL ROD	Ø1-1/2 x 3/8
	-5005	1.2500	.2500	1.1740	1.500	0-1	DRILL ROD	Ø1-1/2 x 3/8
1250-8-GT	-5006	1.2500	.3125	1.1740	1.500	0-1	DRILL ROD	Ø1-1/2 x 3/8
	-5016	1.2500	.6250	1.1740	1.500	0-1	DRILL ROD	Ø1-1/2 x 3/8
	-5011	1.3125	.4375	1.2360	1.562	0-1	DRILL ROD	Ø1-5/8 x 3/8
1312-8-GT	-5014	1.3125	.6250	1.2360	1.562	0-1	DRILL ROD	Ø1-5/8 x 3/8
	-5015	1.3125	.8750	1.2360	1.562	0-1	DRILL ROD	Ø1-5/8 x 3/8
1375-8-GT	-5014	1.3750	.6250	1.2990	1.625	0-1	DRILL ROD	Ø1-5/8 x 3/8
1373-0-01	-5017	1.3750	.7500	1.2990	1.625	0-1	DRILL ROD	Ø1-5/8 x 3/8

(R R	ED	Br	4RN	1 1	44	СН	ΙN	Ε	
TITLE	8	POI	NT	STA	4KI	NG	TE		. i	
				K-Ül					,	
DWG NO.										REV
RBST(#JOOT	SEE	CHAR'	T)-(PII	<u>:</u> []#	SE	E CHA	ART)-	-3	1A
	ESS OTH				DRAW	N BY:	PI	ERRI'	TT	
TOLERAN		NS ARE II	N INCHE	:5	APPRO	OVED				
DECIMAI		FRACTI	ON6 + 1	1/22	HEAT TREAT		RC	. 60	-63	
.xx ± .	01		GLES ±.		FINISH SPEC	1	BLA	CK 🛮	XIDE	
		RWISE S	PECIFII	FD		US	SED ON E	BEARIN	G	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R						SEE CHART Pg. 1				
2. DIMEN	.015 X 45 SIONAL LIM									
SCALE	NTS	`	DATE	2-6	5-08	3	SHEET	3	of	6



TOOL#	PILOT No.	BEA OD.	RING ID.	ØD ₁ +.0003 0008	ØD ₂	ØH +.002 000	ØH₁		MATERIAL	
1093-8-GT	-5013	1.0937	.5625	1.0170	1.25	.375	.81	4140	Q&T	Ø1-1/4 x 3
1125-8-GT	-5012	1.1250	.5000	1.0490	1.28	.375	-	4140	Q&T	Ø1-3/8 x 3
	-5012	1.1875	.5000	1.1115	1.34	.375	.87	4140	Q&T	Ø1-3/8 x 3
1187-8-GT	-5013	1.1875	.5625	1.1115	1.34	.375	.87	4140	Q&T	Ø1-3/8 x 3
1107-0-01	-5014	1.1875	.6250	1.1115	1.34	.375	.87	4140	Q&T	Ø1-3/8 x 3
	-5017	1.1875	.7500	1.1115	1.34	.375	.87	4140	Q&T	Ø1-3/8 x 3
	-5005	1.2500	.2500	1.1740	1.41	.250	.94	4140	Q&T	Ø1-1/2 x 3
1250-8-GT	-5006	1.2500	.3125	1.1740	1.41	.250	.94	4140	Q&T	Ø1-1/2 x 3
	-5016	1.2500	.6250	1.1740	1.41	.250	.94	4140	Q&T	Ø1-1/2 x 3
	-5011	1.3125	.4375	1.2360	1.47	.375	-	4140	Q&T	Ø1-1/2 x 3
1312-8-GT	-5014	1.3125	.6250	1.2360	1.47	.375	-	4140	Q&T	Ø1-1/2 x 3
	-5015	1.3125	.8750	1.2360	1.47	.375	-	4140	Q&T	Ø1-1/2 x 3
1375-8-GT	-5014	1.3750	.6250	1.2990	1.53	.375	-	4140	Q&T	Ø1-5/8 x 3
1373-0-01	-5017	1.3750	.7500	1.2990	1.53	.375	-	4140	Q&T	Ø1-5/8 x 3

	RB R	ED	Вн	4RN		МΑ	СН	INE		
TITLE	Я	РПІ	NIT	STA	1 N	MG	ТГ	<u> </u>		
1	O	1 11	1 1 1				1 -			
				BП.	[]Y					
DWG NO	L								Т	REV
סמם	ת' וחחד א	CEE	CLIVE	T\ /DI	٠пт	ш сг	E CH	DT\ 1	- 1	<u>۱</u> ۸
KR?	:T(T00L*#	. 2FF	CHAR	17-(1	LUI	# 7F	E UHA	4K I)_I	- 1	IA
	JNLESS OTH				DRA	WN BY:	PE	RRITT		
TOLED	DIMENSION ANCES ON:	NS ARE II	N INCHE	S	APPROVED					
DECIN					HEAT					
.XXX		FRACT	ONG ± 1	/22	TREA	J				
	± .01		GLES ±.		FINIS	ξH	BLAC	CK DXI	DE	
.X	<u>t .1</u>				OI LC		SED ON B	FARING		
	UNLESS OTHERWISE SPECIFIED									
1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R						SEE CHART Pg. 1				
2. DI	.015 x 43 MENSIONAL LIN									
SCALE	NT:	<u> </u>	DATE	2-6	5-0	18	SHEET	2 0	f	9



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	REVISIONS									
REV	DESCRIPTION	DATE	INITIAL	APPROVED						
_		-	-	-						

NOT APPROVED FOR PRODUCTION ® RED BARN MACHINE

ASSY QTY	ASSY QTY	B/O	PART#	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.	**************************************	L
			-1	1	RND	6061	Ø8-1/4 x 3-7/8	2	DWG NO.	REV
									— —	KEV
									UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT	-
									DIMENSIONS ARE IN INCHES TOLERANCES ON: APPROVED	
									DECIMALS XXX ± .005	
								1	UNLESS OTHERWISE SPECIFIED USED ON MODEL	
									1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R	
									2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
	ASSY #								SCALE NTS DATE $8-15-07$ SHEET 1 0	f 1

	REVISIONS			
REV	DESCRIPTION	DATE	INITIAL	APPROVED
_		-	_	

RED BARN MACHINE

WOT APPROVED FOR PRODUCTION

									MAINED DUINN HUCHTINE		
ASSY A	ASSY QTY	B/O P	ART#	QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.	— TITLE — ·	_	
			·1	1	RND	6061	Ø8-1/4 x 3-7/8	2			
									DWG NO.	_	REV
									UNLESS OTHERWISE SPECIFIED	DRAWN BY: PERRITT	
									DIMENSIONS ARE IN INCHES TOLERANCES ON:	APPROVED	
									DECIMALS .XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT	
									1.XX ± .01 ANGLES ±.5°	FINISH SPEC	
		-							UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES	USED ON MODEL	
	ŀ								.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
A	ASSY #									15-07 SHEET 1 of	1

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	REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED	
-		-	-	-	

® RED BARN MACHINE

TOOL # 1093-8-GT 1125-8-GT	PILOT No. -5013 -5012
	-5012
1125-8-GT	
1125-8-GT	
	I
	-5012
1187-8-GT	-5013
1107-0-01	-5014
	-5017
	-5005
1250-8-GT	-5006
	-5016
	-5011
1312-8-GT	-5014
	-5015
1275 0 CT	-5014
1375-6-61	-5017
	$oldsymbol{\bot}$
	1
	1

APPROVED FOR PRODUCTION

APPROVED FOR PRODUCTION

ASSY A QTY (SSY QTY	B/O	PART#	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.	**** 8 POINT STAKING TOOL;
			-1	1	RND	6061	Ø8-1/4 x 3-7/8	2	ASSEMBLY DWG NO. REV
									KBST(TOOL'# SEE CHART)-(PILOT# SEE CHART)
	L								UNLESS OTHERWISE SPECIFIED DRAWN BY: PERRITT DIMENSIONS ARE IN INCHES
									TOLERANCES ON: APPROVED
	Ī								DECIMALS .XXX ± .005 FRACTIONS ± 1/32 TREAT .XX + .01 FINISH
	ı								.XX ± .01 ANGLES ±.5° SPEC
	ŀ			-					UNLESS OTHERWISE SPECIFIED USED ON BEARING
	L								1. BREAK ALL SHARP EDGES SFF CHART Pg. 1
									.015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
Α	SSY #								SCALE NTS DATE 2-6-08 SHEET 1 of 6